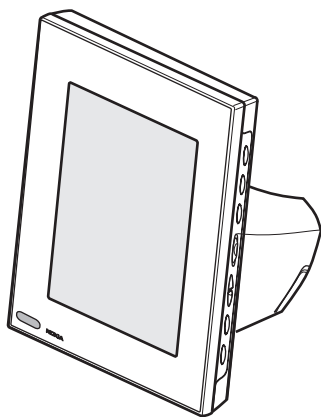


# Nokia Image Frame SU-4 User Guide



9362611  
Issue 1

## DECLARATION OF CONFORMITY

We, NOKIA CORPORATION, declare under our sole responsibility that the product SU-4 is in conformity with the provisions of the following Council Directive: 1999/5/EC.

A copy of the Declaration of Conformity can be found at [http://www.nokia.com/phones/declaration\\_of\\_conformity/](http://www.nokia.com/phones/declaration_of_conformity/).



Copyright © 2004 Nokia. All rights reserved.

Reproduction, transfer, distribution or storage of part or all of the contents in this document in any form without the prior written permission of Nokia is prohibited.

Nokia and Nokia Connecting People are trademarks or registered trademarks of Nokia Corporation. Other product and company names mentioned herein may be trademarks or tradenames of their respective owners.

The information contained in this user guide was written for the Nokia Image Frame. Nokia operates a policy of ongoing development. Nokia reserves the right to make changes to any of the products described in this document without prior notice.

UNDER NO CIRCUMSTANCES SHALL NOKIA BE RESPONSIBLE FOR ANY LOSS OF DATA OR INCOME OR ANY SPECIAL, INCIDENTAL, AND CONSEQUENTIAL OR INDIRECT DAMAGES HOWSOEVER CAUSED. THE CONTENTS OF THIS DOCUMENT ARE PROVIDED "AS IS." EXCEPT AS REQUIRED BY APPLICABLE LAW, NO WARRANTIES OF ANY KIND EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE MADE IN RELATION TO THE ACCURACY AND RELIABILITY OR CONTENTS OF THIS DOCUMENT. NOKIA RESERVES THE RIGHT TO REVISE THIS DOCUMENT OR WITHDRAW IT AT ANY TIME WITHOUT PRIOR NOTICE.

The availability of particular products may vary by region. Please check with the Nokia dealer nearest to you.

### **FCC/INDUSTRY CANADA NOTICE**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

# Contents

<b>FOR YOUR SAFETY</b> .....	<b>1</b>
<b>Introduction</b> .....	<b>2</b>
Power supply .....	2
Technical data .....	3
Image format .....	3
<b>1 Overview</b> .....	<b>4</b>
<b>2 Getting started</b> .....	<b>6</b>
Setting up the Nokia Image Frame .....	6
Switching the power on and off .....	6
<b>3 Using the Nokia Image Frame</b> .....	<b>7</b>
Viewing the images .....	7
Editing the images .....	7
Switching the screensaver on and off .....	8
Modifying the display brightness .....	8
Sending an image from the Nokia Image Frame .....	9
Receiving images with the Nokia Image Frame .....	9
<b>Care and maintenance</b> .....	<b>12</b>

## NOTES

# FOR YOUR SAFETY

Read these simple guidelines. Breaking the rules may be dangerous or illegal. Further detailed information is given in this manual.



## QUALIFIED SERVICE

Only qualified personnel may repair the Nokia Image Frame equipment.



## CONNECTING TO OTHER DEVICES

When connecting to any other device, read its user's guide for detailed safety instructions. Do not connect incompatible products.



## BACKUP COPIES

Remember to make backup copies of all important data.



## WATER-RESISTANCE

Your Nokia Image Frame is not water-resistant. Keep it dry.



**Important:** Only use chargers in dry conditions. Never supply power to the device with a charger when the device or charger or their parts are damp or wet. If the device has been exposed to salt water, wipe it immediately with a cloth dampened with fresh water to avoid corrosion. The device must then be carefully wiped dry.

Do not point the IR (infrared) beam at anyone's eye or allow it to interfere with other IR devices. This device is a Class 1 Laser product.

# Introduction

The Nokia Image Frame SU-4 is an enhancement product, which enables you to view the digital images taken or received by your IrDA-enabled Nokia phone or other compatible devices. The Nokia Image Frame can communicate with other compatible devices via infrared (IR). You can place the Nokia Image Frame on a table and view the images either one-by-one or as a slide show. The Nokia Image Frame comes supplied with three pre-loaded images, and you can conveniently add new images from a compatible device and delete old images.

Read this user's guide carefully before using the Nokia Image Frame.

## • POWER SUPPLY

Check the model number of any charger used to supply power before use with this device. The Nokia Image Frame is intended for use with the ACP-12 charger.



**Warning:** Use only chargers approved by the manufacturer for use with this particular enhancement. The use of any other types will invalidate any approval or warranty applying to the enhancement, and may be dangerous.

For availability of approved chargers, please check with your dealer.

When you disconnect the power cord of any enhancement, grasp and pull the plug, not the cord.

## ● TECHNICAL DATA

- Weight: 15 oz (425g)
- Width (max) / height (max) / depth (max):  
6.7 in / 5.1 in / 4.8 in  
(170 mm / 129 mm / 123.0 mm)
- Display: 5.1" transmissive backlit STN color LCD 320 x 240 horizontal orientation, 4096 colors. The image resolution in these materials may appear different.
- Operating temperature: 32 °F to 104 °F (0 °C to 40 °C)
- Compatibility: The Nokia Image Frame SU-4 is compatible with phones and other devices that support image sending over infrared (IrDA). Note that if image sending cannot be activated from the phone (IrDA Send feature), the Nokia Image Frame can pull the images from the compatible Nokia phone when the phone's IR connection has been activated.
- IrDA standards: IrOBEX 1.3 receive/send, IrTranP receive
- Supported image format: JPEG and GIF (not animated GIF)
- Supported image size: max 1024 \* 768, up to 200 kB. Due to different techniques of image processing, possibly up to 1 MB.

## ● IMAGE FORMAT

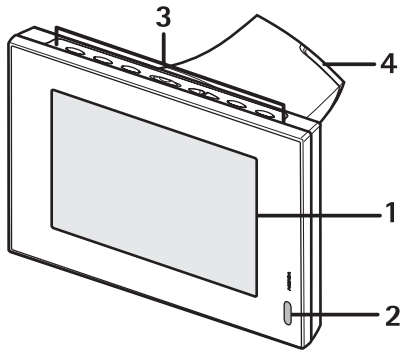
The Nokia Image Frame converts all the received images to JPEG format with the 320x240 pixel resolution. If the resolution of the received image differs from this resolution, the Nokia Image Frame scales the image so that it fits optimally on the display.

When you send images from the Nokia Image Frame, they are sent with the JPEG format, since the Nokia Image Frame does not store the original formats of the received images. You should therefore remember to make backup copies of your original images.

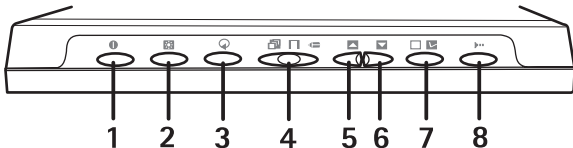
# 1 Overview




The Nokia Image Frame has the following main parts:

- 1 Display
- 2 Infrared (IR) port
- 3 Control keys
- 4 Table support



You can use the Nokia Image Frame through the control keys on top of the device. The control keys are:



- 1 Power on/off key
- 2 Show/Brightness key
- 3 Rotation key
- 4 Three-position switch:
  - Slide show mode 
  - Image view mode 
  - Edit mode 
- 5 Up key
- 6 Down key
- 7 Mark key

## 8 IrDA key

There are three ways to press the keys. These are as follows:

- **Press briefly** - press a key for less than one second
- **Press** - press a key for at least one second
- **Press and hold** - press and hold down the key for at least three seconds



## INDICATORS ON THE DISPLAY



This indicator shows that the image has been marked for viewing.



The memory in the Nokia Image Frame is full, 50 images are stored in the Nokia Image Frame. If the memory becomes full in the middle of image transfer, the rest of the images are discarded.



The Nokia Image Frame is rotating the image 90° clockwise.



The Nokia Image Frame is switching to the next image.



The Nokia Image Frame is switching to the previous image.



Confirms that the image has been successfully deleted.



This indicator blinks when the Nokia Image Frame attempts to establish the IrDA connection. When the connection is established and the Nokia Image Frame is sending or receiving an image, the indicator is displayed continuously.



Confirms that the images have been successfully received or sent (the receiving device has confirmed the images as received).



The image is not supported by the Nokia Image Frame. It is, for example, too large or not in the compatible format.



An error occurred during the image transfer.



This indicator shows how many images have been marked for viewing and how many images in total have been stored. The maximum number of stored images is 50.



The progress bar is shown while the Nokia Image Frame processes the received images.

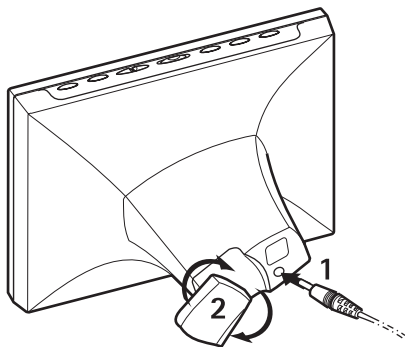
## 2 Getting started

- **SETTING UP THE NOKIA IMAGE FRAME**

1 Connect the charger to an AC wall socket.

2 Connect the lead from the charger to the socket at the back of the Nokia Image Frame (1).

3 Set the Nokia Image Frame on the table with the control keys on the top. If most of your images are in the upright position, you can turn the Nokia Image Frame upright so that the control keys are on the right side of the display.



You can turn the table support (2) at the back to change the angle of the Nokia Image Frame display.

- **SWITCHING THE POWER ON AND OFF**

Press **1** to switch on the Nokia Image Frame.

Press **1** to switch off the power.






Unplug the Nokia Image Frame when not in use.

## 3 Using the Nokia Image Frame

### • VIEWING THE IMAGES


If there is only one image in the Nokia Image Frame, it is displayed when you switch on the power. If there is more than one image in the Nokia Image Frame, you can set the Nokia Image Frame to show just one image, or several images in rotation as a slide show.

#### SETTING NOKIA IMAGE FRAME TO SHOW ONE IMAGE:

- 1 Slide the three position switch to .
- 2 Press briefly  or  to scroll through the images and select the image you want to view. If you press and hold  or , the images scroll automatically at 3-second intervals.

You can scroll through all the marked images. For more information about marking the images, see "Editing the images" on page 7.

#### SETTING NOKIA IMAGE FRAME TO SHOW THE SLIDE SHOW:

- Slide the three position switch to .







The Nokia Image Frame displays all the marked images in rotation so that each image is shown for 30 seconds at a time. For more information about marking the images, see "Editing the images" on page 7.

### • EDITING THE IMAGES









When the power is switched on and the edit mode activated, you can delete the images and mark the images you want for viewing.

#### DELETING IMAGES:

Remember to make backup copies of your images by, for example, sending and saving them to another compatible device.

- 1 Slide the three position switch to .
- 2 Press briefly  or  until the Nokia Image Frame displays the image you want to delete.
- 3 Press and hold  and  until the  icon is displayed.


## MARKING THE IMAGES FOR VIEWING:

- 1 Slide the three position switch to .
- 2 Press briefly  or  to scroll the images.
- 3 If you want to be able to view an image, mark it by pressing briefly   while the image is displayed. The Nokia Image Frame displays the  icon for all marked images. If you want to unmark an image, press briefly   while the marked image is displayed.


When the Nokia Image Frame receives new images, it automatically marks them. If you do not want to view the new images, unmark them as explained above.

## ROTATING IMAGES:

You can rotate the images both in the edit mode and when you are viewing the images.

When the image you want to rotate is displayed, press  to rotate the image 90° clockwise. The Nokia Image Frame stores the orientation of the image, and the next time the Nokia Image Frame displays the image, it uses the new orientation.




## • SWITCHING THE SCREENSAVER ON AND OFF

You can activate the screensaver, if you want to turn off the display without turning off the device. Press and hold  to activate the screensaver.

You can turn the display back on by pressing any control key.






The Nokia Image Frame activates the screensaver automatically if no keys have been pressed for up to 18 hours.

## • MODIFYING THE DISPLAY BRIGHTNESS

When the power is switched on, you can modify the brightness of the display by pressing briefly . There are five brightness levels, and each time you press , the level is raised by one. When the highest brightness level is used and you press , the Nokia Image Frame returns to the lowest brightness level.

## ● SENDING AN IMAGE FROM THE NOKIA IMAGE FRAME

When the power is switched on, select the image you want to send on the display of the Nokia Image Frame.



- 1 If needed, activate the IR port of the device to which you want to send an image.
- 2 Direct the IR ports of the Nokia Image Frame and the receiving compatible device toward each other, and ensure that there are no obstructions between the devices. The maximum allowed distance is up to 4.9 ft (1.5 m) and the transmission angle 15°.
- 3 Press  and  to send the image. The  icon blinks while the Nokia Image Frame attempts to establish a connection to the receiving device. During the image transfer the  icon stops blinking. When the image is successfully sent, the Nokia Image Frame displays the  icon.



## ● RECEIVING IMAGES WITH THE NOKIA IMAGE FRAME

When the power is switched on, the Nokia Image Frame can receive images. Note that the Nokia Image Frame converts the received images to display them. For more information, see "Image format" on page 3.

The image receiving procedure differs depending on the sending device. If the sending device can send images over IR, you can send the selected images from the device while the Nokia Image Frame is in the passive IR reception mode. If image sending cannot be activated from the sending device, the Nokia Image Frame can pull all the images from the sending device's default image folder using the active IR reception mode.

### RECEIVING IMAGES OVER IR:



- 1 If you want the images in the Nokia Image Frame to be in a certain order, press briefly  or  to scroll to the image after which you want to store the new images.



- 2 Direct the IR ports of the Nokia Image Frame and the compatible sending device toward each other, and ensure that there are no obstructions between the devices. The maximum allowed distance is up to 4.9 ft (1.5 m) and the transmission angle 15°.
- 3 When the sending device starts to send the images, the Nokia Image Frame enters the passive IR reception mode and displays the  icon. For more information on how to initiate sending from the other device, refer to the user's guide of that device.
- 4 During the image transfer, the Nokia Image Frame displays the  icon and the received images one by one.
- 5 After the images have been received, the Nokia Image Frame returns to the previous mode, and the images are stored as the next images after the currently displayed image.

If you want to edit the new images, see "Editing the images" on page 7.

#### **PULLING IMAGES OVER IR:**

The Nokia Image Frame pulls all the images from the image source device's default directory. The maximum number of images in the Nokia Image Frame is 50. If this limit is reached during the image transfer, the transfer is disconnected so that only 50 images in total are stored to the Nokia Image Frame.

- 1 If you want the images in the Nokia Image Frame to be in a certain order, press briefly  or  to scroll to the image after which you want to store the new images.
- 2 Direct the IR ports of the Nokia Image Frame and the compatible image source device toward each other, and ensure that there are no obstructions between the devices. The maximum allowed distance is up to 4.9 ft (1.5 m) and the transmission angle 15°.
- 3 Activate the image source device's IR connection. For more information on how to do this, refer to the user's guide of that device.

- 4 Press **▶** to enter the active IR reception mode. The Nokia Image Frame displays the  icon.
- 5 During the image transfer, the Nokia Image Frame displays the  icon and the received images one by one.
- 6 After all the images have been received, the Nokia Image Frame returns to the previous mode, and the images are stored as the next images after the currently displayed image.

If you want to edit the new images, see "Editing the images" on page 7.

# Care and maintenance

Your Nokia Image Frame SU-4 is a product of superior design and craftsmanship and should be treated with care. The suggestions below will help you to fulfil any warranty obligations and to enjoy this product for many years.

- Keep all enhancements out of the reach of small children.
- Keep Nokia Image Frame dry. Precipitation, humidity and all types of liquids or moisture can contain minerals that will corrode electronic circuits.
- Do not use or store Nokia Image Frame in dusty, dirty areas. Its moving parts can be damaged.
- Do not store Nokia Image Frame in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store Nokia Image Frame in cold areas. When it warms up (to its normal temperature), moisture can form inside, which may damage electronic circuit boards.
- Do not attempt to open Nokia Image Frame. Non-expert handling may damage it.
- Do not drop, knock or shake Nokia Image Frame. Rough handling can break internal circuit boards.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean Nokia Image Frame.
- Do not paint Nokia Image Frame. Paint can clog the moving parts and prevent proper operation.

If Nokia Image Frame is not working properly, take it to your nearest qualified service facility. The personnel there will assist you and, if necessary, arrange for service.

For environmentally sound recycling; contact your local Nokia service point or check local regulations for correct disposal of household electronics.



# Nokia One-Year Limited Warranty

Nokia Inc. ("Nokia") warrants that this cellular phone ("Product") is free from defects in material and workmanship that result in Product failure during normal usage, according to the following terms and conditions:

1. The limited warranty for the Product extends for ONE (1) year beginning on the date of the purchase of the Product. This one year period is extended by each whole day that the Product is out of your possession for repair under this warranty.
2. The limited warranty extends only to the original purchaser ("Consumer") of the Product and is not assignable or transferable to any subsequent purchaser/end-user.
3. The limited warranty extends only to Consumers who purchase the Product in the United States of America.
4. During the limited warranty period, Nokia will repair, or replace, at Nokia's sole option, any defective parts, or any parts that will not properly operate for their intended use with new or refurbished replacement items if such repair or replacement is needed because of product malfunction or failure during normal usage. No charge will be made to the Consumer for any such parts. Nokia will also pay for the labor charges incurred by Nokia in repairing or replacing the defective parts. The limited warranty does not cover defects in appearance, cosmetic, decorative or structural items, including framing, and any non-operative parts. Nokia's limit of liability under the limited warranty shall be the actual cash value of the Product at the time the Consumer returns the Product for repair, determined by the price paid by the Consumer for the Product less a reasonable amount for usage. Nokia shall not be liable for any other losses or damages. These remedies are the Consumer's exclusive remedies for breach of warranty.
5. Upon request from Nokia, the Consumer must prove the date of the original purchase of the Product by a dated bill of sale or dated itemized receipt.

6. The Consumer shall bear the cost of shipping the Product to Nokia in Melbourne, Florida. Nokia shall bear the cost of shipping the Product back to the Consumer after the completion of service under this limited warranty.
7. The Consumer shall have no coverage or benefits under this limited warranty if any of the following conditions are applicable:
  - a) The Product has been subjected to abnormal use, abnormal conditions, improper storage, exposure to moisture or dampness, unauthorized modifications, unauthorized connections, unauthorized repair, misuse, neglect, abuse, accident, alteration, improper installation, or other acts which are not the fault of Nokia, including damage caused by shipping.
  - b) The Product has been damaged from external causes such as collision with an object, or from fire, flooding, sand, dirt, windstorm, lightning, earthquake or damage from exposure to weather conditions, an Act of God, or battery leakage, theft, blown fuse, or improper use of any electrical source, damage caused by computer or internet viruses, bugs, worms, Trojan Horses, cancelbots or damage caused by the connection to other products not recommended for interconnection by Nokia.
  - c) Nokia was not advised in writing by the Consumer of the alleged defect or malfunction of the Product within fourteen (14) days after the expiration of the applicable limited warranty period.
  - d) The Product serial number plate or the enhancement data code has been removed, defaced or altered.
  - e) The defect or damage was caused by the defective function of the cellular system or by inadequate signal reception by the external antenna, or viruses or other software problems introduced into the Product.
8. Nokia does not warrant uninterrupted or error-free operation of the Product. If a problem develops during the limited warranty period, the Consumer shall take the following step-by-step procedure:
  - a) The Consumer shall return the Product to the place of purchase for repair or replacement processing.

- b) If "a" is not convenient because of distance (more than 50 miles) or for other good cause, the Consumer shall ship the Product prepaid and insured to:  
Nokia Inc., Attn: Repair Department  
795 West Nasa Blvd.  
Melbourne, FL 32901
- c) The Consumer shall include a return address, daytime phone number and/or fax number, complete description of the problem, proof of purchase and service agreement (if applicable). Expenses related to removing the Product from an installation are not covered under this limited warranty.
- d) The Consumer will be billed for any parts or labor charges not covered by this limited warranty. The Consumer will be responsible for any expenses related to reinstallation of the Product.
- e) Nokia will repair the Product under the limited warranty within 30 days after receipt of the Product. If Nokia cannot perform repairs covered under this limited warranty within 30 days, or after a reasonable number of attempts to repair the same defect, Nokia at its option, will provide a replacement Product or refund the purchase price of the Product less a reasonable amount for usage. In some states the Consumer may have the right to a loaner if the repair of the Product takes more than ten (10) days. Please contact the Customer Service Center at Nokia at the telephone number listed at the end of this warranty if you need a loaner and the repair of the Product has taken or is estimated to take more than ten (10) days.
- f) If the Product is returned during the limited warranty period, but the problem with the Product is not covered under the terms and conditions of this limited warranty, the Consumer will be notified and given an estimate of the charges the Consumer must pay to have the Product repaired, with all shipping charges billed to the Consumer. If the estimate is refused, the Product will be returned freight collect. If the Product is returned after the expiration of the limited warranty period, Nokia's normal service policies shall apply and the Consumer will be responsible for all shipping charges.

9. You (the Consumer) understand that the product may consist of refurbished equipment that contains used components, some of which have been reprocessed. The used components comply with Product performance and reliability specifications.
10. ANY IMPLIED WARRANTY OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE OR USE, SHALL BE LIMITED TO THE DURATION OF THE FOREGOING LIMITED WRITTEN WARRANTY. OTHERWISE, THE FOREGOING LIMITED WARRANTY IS THE CONSUMER'S SOLE AND EXCLUSIVE REMEDY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. NOKIA SHALL NOT BE LIABLE FOR SPECIAL, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOSS OF ANTICIPATED BENEFITS OR PROFITS, LOSS OF SAVINGS OR REVENUE, LOSS OF DATA, PUNITIVE DAMAGES, LOSS OF USE OF THE PRODUCT OR ANY ASSOCIATED EQUIPMENT, COST OF CAPITAL, COST OF ANY SUBSTITUTE EQUIPMENT OR FACILITIES, DOWNTIME, THE CLAIMS OF ANY THIRD PARTIES, INCLUDING CUSTOMERS, AND INJURY TO PROPERTY, RESULTING FROM THE PURCHASE OR USE OF THE PRODUCT OR ARISING FROM BREACH OF THE WARRANTY, BREACH OF CONTRACT, NEGLIGENCE, STRICT TORT, OR ANY OTHER LEGAL OR EQUITABLE THEORY, EVEN IF NOKIA KNEW OF THE LIKELIHOOD OF SUCH DAMAGES. NOKIA SHALL NOT BE LIABLE FOR DELAY IN RENDERING SERVICE UNDER THE LIMITED WARRANTY, OR LOSS OF USE DURING THE PERIOD THAT THE PRODUCT IS BEING REPAIRED.
11. Some states do not allow limitation of how long an implied warranty lasts, so the one year warranty limitation may not apply to you (the Consumer). Some states do not allow the exclusion or limitation of incidental and consequential damages, so certain of the above limitations or exclusions may not apply to you (the Consumer). This limited warranty gives the Consumer specific legal rights and the Consumer may also have other rights which vary from state to state.
12. Nokia neither assumes nor authorizes any authorized service center or any other person or entity to assume for it any other obligation or liability beyond that which is expressly provided for in this limited warranty including the provider or seller of any extended warranty or service agreement.

13. This is the entire warranty between Nokia and the Consumer, and supersedes all prior and contemporaneous agreements or understandings, oral or written, relating to the Product, and no representation, promise or condition not contained herein shall modify these terms.
14. This limited warranty allocates the risk of failure of the Product between the Consumer and Nokia. The allocation is recognized by the Consumer and is reflected in the purchase price.
15. Any action or lawsuit for breach of warranty must be commenced within eighteen (18) months following purchase of the Product.
16. Questions concerning this limited warranty may be directed to:  
Nokia Inc.  
Attn: Customer Service  
7725 Woodland Center Blvd., Ste. 150  
Tampa, FL 33614  
Telephone: 1-888-NOKIA-2U (1-888-665-4228)  
Facsimile: (813) 287-6612  
TTY/TDD Users Only: 1-800-24-NOKIA (1-800-246-6542)
17. The limited warranty period for Nokia supplied attachments and enhancements is specifically defined within their own warranty cards and packaging.

## NOTES

## NOTES

# **NOKIA**

CONNECTING PEOPLE

© Nokia 2004. All rights reserved.

Nokia, Connecting People and the Original Enhancements logos are registered trademarks and/or trademarks of Nokia Corporation and/or its affiliates.

Version 1

Printed in USA 2/04

9362611